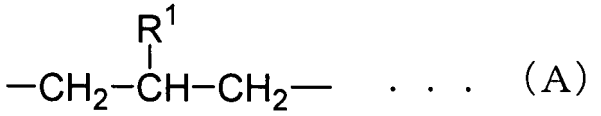
Amendments to the Claims

1. (Currently amended) A graft copolymer having a structure in which a vinyl polymer segment formed from a vinyl monomer having an acid group is suspended in a molecular chain of polyolefin resin segment via a β-substituted propylene group.

2. (Original) The graft copolymer according to claim 1, wherein the β-substituted propylene group is a group represented by the formula (A):
[Formula A]



$$-CH_2-\underset{\displaystyle R^1}{\underset{|}{CH}}-CH_2- \quad \cdots \quad (A)$$

wherein R^1 represents a phenyl group, cyano group or –COORm (Rm represents an alkyl group having 1 to 4 carbon atoms)

3. (Previously presented) The graft copolymer according to claim 1, wherein the polyolefin resin segment is a polypropylene resin segment.

4. (Previously presented) The graft copolymer according to claim 1, wherein the polyolefin resin segment is an olefin elastomer segment.

5. (Previously presented) The graft copolymer according to claim 1, wherein the content of the vinyl polymer segment is 0.1 to 30% by weight.

6. (Previously presented) A graft copolymer composition containing the graft copolymer according to claim 1.

7. (Original) The graft copolymer composition according to claim 6, wherein partial crosslinking is present.

8. (Previously presented) The graft copolymer composition according to claim 6, wherein the composition contains further a lubricant.

9. (Previously presented) A molded product obtainable by molding the graft copolymer composition according to claim 6.

10-11. (Cancelled)

12. (Currently amended) ~~The~~ A method for producing a graft copolymer ~~according to claim 10~~ by reacting a vinyl monomer having an acid group with polyolefin resin having a β-substituted propenyl group as a pendant, wherein the polyolefin resin having a β-substituted propenyl group as a pendant is produced by reacting an addition-fragmentation chain transfer agent with polyolefin resin.

13. (Previously presented) The graft copolymer according to claim 2, wherein the polyolefin resin segment is a polypropylene resin segment.

14. (Previously presented) The graft copolymer according to claim 2, wherein the polyolefin resin segment is an olefin elastomer segment.

15. (Previously presented) The graft copolymer according to claim 2, wherein the content of the vinyl polymer segment is 0.1 to 30% by weight.

16. (Previously presented) A graft copolymer composition containing the graft copolymer according to claim 2.

17. (Previously presented) The graft copolymer composition according to claim 16, wherein partial crosslinking is present.

18. (Previously presented) The graft copolymer composition according to claim 16, wherein the composition contains further a lubricant.

19. (Previously presented) A molded product obtainable by molding the graft copolymer composition according to claim 16.

20. (Currently amended) ~~The~~ A method for producing a graft copolymer ~~according to claim 11~~ by reacting a vinyl monomer having an acid group with polyolefin resin having a β-substituted propenyl group as a pendant by heating and mixing at a temperature of not less than 30°C and not more than 400°C, wherein the polyolefin resin having a β-substituted propenyl group as a pendant is produced by reacting an addition-fragmentation chain transfer agent with polyolefin resin.